

AMSAT News Service Weekly Bulletins

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AMSAT News Service

ANS-187

July 6, 2025

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The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, the Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on <http://www.amsat.org> publishes news of Amateur Radio in Space as soon as our volunteers can post it.

\*Please send any amateur satellite news or reports to: [ans-editor \[at\] amsat.org](mailto:ans-editor@amsat.org) <<http://amsat.org>>\*

Sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see:  
<https://mailman.amsat.org/postorius/lists/ans.amsat.org/>

#### AMSAT Field Day Submissions Now Due

Now that Field Day is over, there is one more thing you can do if you would like to participate in the scoring process for AMSAT Field Day. Email your submission sheet.

If you do not have the submission sheet, go to [AMSAT.org](http://AMSAT.org) and under EVENTS, select AMSAT Field Day. Download the rules. The Satellite Summary Sheet is at the end of the rules.

The Satellite Summary Sheet should be used for submission of the AMSAT Field Day competition and be received by KK5D0 (e-mail) by 11:59 P.M. CDT, Tuesday, July 29, 2025. This year, we are using the same due date as the ARRL. The only method for submitting your log is via e-mail to [kk5do \[at\] amsatnet.com](mailto:kk5do@amsatnet.com) or [kk5do \[at\] arrl.net](mailto:kk5do@arrl.net). No mail-in entries.

Add photographs or other interesting information that can be used in an article for \*The AMSAT Journal\*.

You will receive an e-mail back (within one or two days) your e-mail submission has been received. If you do not receive a confirmation message,

then try sending it again or send it to the other e-mail address.

[ANS thanks Bruce Paige, KK5DO, AMSAT Director Contests and Awards, for the above information]

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\*Your 2025 AMSAT President's Club Coin Is Waiting!\*

\*Celebrating the 40th Anniversary of Amateur Radio on Human Spaceflight\*

\*Help Support GOLF and Fox Plus.\*

[image: 2025 PC Coin Set]

\*Join the AMSAT President's Club today and help\*

\*Keep Amateur Radio in Space!\*

\*<https://www.amsat.org/join-the-amsat-presidents-club/>

<<https://www.amsat.org/join-the-amsat-presidents-club/>>\*

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Seeking Additional Volunteers for Moon Day at Dallas Frontiers of Flight Museum

The 2025 Moon Day, a space-themed public STEM event, will take place on Saturday, July 19 at the Frontiers of Flight Museum at Love Field in Dallas. Held each year close to the date of the Apollo 11 moon landing, the event features hands-on science exhibits and activities for all ages. Moon Day runs from 10:00 a.m. to 4:00 p.m. CDT, with setup beginning at 8:00 a.m. CDT.

AMSAT will once again be represented at the event by AMSAT Ambassador Thomas Schuessler, N5HYP, along with several North Texas satellite enthusiasts. They will engage with the public – including many young people – on topics such as satellite orbits, the International Space Station, and amateur radio in space. Exhibits will include the AMSAT Fox CubeSat engineering model and the CubeSat Simulator, and the team hopes to demonstrate a few live satellite passes during the day.

Tom is seeking additional AMSAT volunteers from the North Texas area to help staff the exhibit table. The AMSAT booth will be located next to the Dallas Amateur Radio Club exhibit, providing opportunities for great conversations with fellow hams as well as curious families. Volunteers receive free museum admission and lunch. Anyone interested in helping for part or the entire day is encouraged to email Tom at n5hyp [at] arrl [dot] net.

\*Col. Carl E. Walz (USAF, Ret.) ex-KC5TIE and former NASA Astronaut will be the keynote speaker for Moon Day 2025 (Photo credit: NASA)\*

More information about the event is available at:

<https://flightmuseum.com/events/moonday>

[ANS thanks Tom Schuessler, N5HYP, AMSAT Ambassador, for the above information]

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\*Need new satellite antennas?\*

\*Purchase M2 LEO-Packs from the AMSAT Store.\*

\*When you purchase through AMSAT, a portion of the proceeds goes towards\*

\*Keeping Amateur Radio in Space.\*

\*<https://amsat.org/product-category/hardware/>

<<https://amsat.org/product-category/hardware/>>

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GridMasterMap Satellite Top 100 Rovers July 2025 Rankings

The July 2025 rankings for the Top 100 Rovers (Mixed LEO/ME0/GEO) in satellite operations, as determined by @GridMasterMap on Twitter, has been released. The ranking is determined by the number of grids and DXCC entities activated, taking into account only those grids where a minimum number of QSOs logged on the gridmaster.fr website have been validated by a third party. Grid numbers do not directly reflect the exact number of activations. Satellite operators are encouraged to upload their LoTW satellite contacts to <https://gridmaster.fr> in order to provide more accurate data.

Updated: 2025-06-28

1 ND9M  
26 KX9X  
51 K7TAB  
76 HB9GWJ  
2 NJ7H  
27 DJ8MS  
52 PR8KW  
77 N4UF0  
3 JA9KR0  
28 KG5CCI  
53 XE1ET  
78 PT2AP  
4 UT1FG  
29 ON4AUC  
54 W7WGC  
79 AA8CH  
5 N5UC  
30 N5B0  
55 EB1A0  
80 VE1V0X  
6 DL6AP  
31 K8BL  
56 DF2ET  
81 PT9BM  
7 OE3SEU  
32 KE4AL  
57 N6DNM  
82 FG80J  
8 DP0POL  
33 KB5FHK  
58 EA4NF  
83 YU0W  
9 F5VMJ  
34 PA3GAN  
59 LU4JVE  
84 N6UTC  
10 WI7P  
35 J02ASQ  
60 SM3NRY  
85 AF5CC  
11 K5ZM  
36 F4BKV  
61 KI7QEK  
86 KI7UXT  
12 LU5ILA  
37 VE3HLS  
62 AA5PK  
87 JM1CAX  
13 N6UA  
38 KI0KB  
63 W1AW  
88 KJ7NDY  
14 W5PFG

39 VA3VGR  
64 F4DXV  
89 PS8BR  
15 N9IP  
40 KI7UNJ  
65 DL4EA  
90 N4DCW  
16 WY7AA  
41 HJ5LVR  
66 KE9AJ  
91 WA9JBQ  
17 HA3FOK  
42 LA9XGA  
67 AD7DB  
92 KG4AKV  
18 AK8CW  
43 N7AGF  
68 VE1CWJ  
93 W8MTB  
19 DL2GRC  
44 VK5DG  
69 BG7QIW  
94 KB2YSI  
20 AD0DX  
45 JL3RNZ  
70 W8LR  
95 K0FFY  
21 N4AKV  
46 XE3DX  
71 SP5XSD  
96 VE3G0P  
22 BA1PK  
47 KE0WPA  
72 M1DDD  
97 N0TEL  
23 AD0HJ  
48 AC0RA  
73 N8R0  
98 DK9JC  
24 WD9EWK  
49 KE0PBR  
74 VA7LM  
99 K6VHF  
25 ND0C  
50 JK2XXK  
75 KM4LA0  
100 VE7PTN

[ANS thanks @GridMasterMap for the above information]

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VUCC Satellite Standing July 2025

VUCC Satellite Award/Endorsement Change Summary for June 01, 2025 to July 01, 2025.

K04MA 2000 2100  
DL5GAC 1576 1745  
DF2ET 1602 1700  
W5CBF 1326 1554  
AA5PK 1524 1525  
K8TL 1016 1017  
4J6D 150 1000  
W8LR 905 910  
VE7PTN 635 794  
N8MR 775 783

W6ZQ 560 561  
JG2TSL 157 516  
K6VHF 376 401  
N8HRZ 337 343  
JE2UFF 280 334  
SP7JS 253 300  
YL2KF New 283  
EA4DEI 150 200  
OH3DP 150 176  
NK0S 169 170  
N9BX 125 163  
KC7WDX New 133  
XE2YWH(DL82-DL92) New 119  
WB5TX 101 110  
KB4YKC 100 108  
K4XP 101 102  
BI10EU New 100  
EA1FWI New 100

Congratulations to the new VUCC Satellite holders!

YL2KF is first VUCC Satellite holder from Latvia and K027  
EA1FWI is first VUCC Satellite holder from IN72

[ANS thanks Jon Goering, N7AZ, for the above information]  
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DXCC Satellite Standing July 2025

DXCC Satellite Award/Endorsement Change Summary for June 01, 2025 to July 01, 2025.

IW1FZR 154 184  
Y02CMI 180 184  
HB9RYZ 163 164  
EA2AA 160 161  
IK4DRY 144 150  
W5CBF 130 143  
DL2MIH 132 141  
EA1N 114 139  
DL2QB 120 136  
IK0WMJ 128 131  
IK7FMQ 128 130  
LA0FA 117 128  
W8LR 112 114  
I4DOR New 101  
KP3V New 100

KP3V is first DXCC Satellite holder from FK78

[ANS thanks Jon Goering, N7AZ, for the above information]  
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\*Want to fly the colors on your own grid expedition?\*

\*Get your AMSAT car flag and other neat stuff from our Zazzle store!\*

\*25% of the purchase price of each product goes towards\*

\*Keeping Amateur Radio in Space\*

\*[https://www.zazzle.com/amsat\\_gear](https://www.zazzle.com/amsat_gear)\* <[https://www.zazzle.com/amsat\\_gear](https://www.zazzle.com/amsat_gear)>  
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Changes to AMSAT-NA TLE Distribution for July 4

Two Line Elements or TLEs, often referred to as Keplerian elements or keps in the amateur community, are the inputs to the SGP4 standard mathematical model of spacecraft orbits used by most amateur tracking programs. Weekly

updates are completely adequate for most amateur satellites. TLE bulletin files are updated daily in the first hour of the UTC day. New bulletin files will be posted immediately after reliable elements become available for new amateur satellites. More information may be found at <https://www.amsat.org/keplerian-elements-resources/>.

This week there are no additions or deletions to the AMSAT TLE distribution.

[ANS thanks Joe Fitzgerald, KM1P, AMSAT Orbital Elements Manager for the above information]

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French Astronaut Will Take Food From Michelin-Starred Chef to ISS

French cuisine has a reputation for being among the world's best. So what's a French astronaut do to when faced with the prospect of spending months aboard the International Space Station eating freeze-dried food straight from the packaging?

Recruit a Michelin-starred chef to reimagine French classics like foie gras and lobster bisque was the answer for Sophie Adenot, KJ5LTN, who is due to undertake her first space mission in 2026.

\*Chef Anne-Sophie Pic and astronaut Sophie Adenot, KJ5LTN, at a tasting in Paris. (Photo: Groupe Pic and ESA)\*

The meals designed by Anne-Sophie Pic will make up the "bonus food" taken to the ISS during Adenot's epsilon mission, the European Space Agency said in a statement Tuesday, July 1.

Food in space is typically freeze-dried and comes in plastic packaging from a list of preapproved items, the ESA said. Fruit and vegetables are a rare luxury that are available only when a spacecraft arrives with supplies.

Astronauts, however, are able to have specially catered "bonus food" that makes up about 10 percent of what they eat. This is usually developed in partnership with a chef, and astronauts say it boosts mental well-being, adds variety and helps them bond with fellow crew members when shared in orbit, according to the ESA.

See the full article at <https://wapo.st/4lyxEKj>

[ANS thanks \*The Washington Post\* for the above information.]

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ARISS NEWS

Amateurs and others around the world may listen in on contacts between amateurs operating in schools and allowing students to interact with astronauts and cosmonauts aboard the International Space Station. The downlink frequency on which to listen is 145.800 MHz worldwide.

[image: ARISS News]

\*RECENTLY COMPLETED\*

Axiom 4 group 1 telebridge via K6DUE  
Hungarian Scout Association, Budapest, Hungary  
Debrecen – Bánki Reformed Primary School, Technical College and Vocational Training School, Debrecen, Hungary  
Mezőberényi Petőfi Sándor Evangélikus Gimnázium, Kollégium és Általános Iskola, Mezőberény, Hungary  
Budapesti Műszaki Szakképzési Centrum Puskás Tivadar Távközlési és Informatikai Technikum, Puskás Radio Amateur Club – HA5KHC, HA5KBF, Budapest, Hungary  
The ISS callsign was scheduled to be NA1SS

The crewmember was Tibor Kapu, HA5TRO  
The ARISS mentor is ON6TI  
Contact was successful: Thu 2025-07-03 11:05:59 UTC 50 degrees elevation

Axiom 4 group 4 telebridge via K6DUE  
University of Wrocław, Wrocław, Poland  
The ISS callsign was scheduled to be NA1SS  
The crewmember was Sławosz Uznański-Wiśniewski, SQ7AS  
The ARISS mentor is K4RGK  
Contact was successful: Fri 2025-07-04 08:41:36 UTC 16 degrees elevation  
Congratulations to the Axiom 4 group 4 school, Sławosz, mentor K4RGK, and telebridge station K6DUE!  
Congratulations to Sławosz for his first ever ARISS contact!  
Watch for Livestream at [https://www.youtube.com/watch?v=FATPwoNf\\_zg](https://www.youtube.com/watch?v=FATPwoNf_zg)

Axiom 4 group 5 telebridge via K6DUE  
UR Rao Satellite Centre (URSC), Dept. of Space, Govt. of India, Bengaluru, Karnataka, India  
The ISS callsign was scheduled to be NA1SS  
The crewmember was Shubhanshu Shukla, VU2TNI  
The ARISS mentor is AA6TB  
Contact was successful: Fri 2025-07-04 10:17:10 UTC 86 degrees elevation  
Congratulations to the Axiom 4 group 5 students, Shubhanshu, mentor AA6TB, and telebridge station K6DUE!  
Congratulations to Shubhanshu for his first ever ARISS contact!

Axiom 4 group 3 telebridge via K6DUE  
Rzeszow University of Technology, Rzeszow Poland  
The ISS callsign was scheduled to be NA1SS  
The crewmember was Sławosz Uznański-Wiśniewski, SQ7AS  
The ARISS mentor is K4RGK  
Contact was successful: Sat 2025-07-05 09:28:23 UTC 48 degrees elevation  
Congratulations to the Axiom 4 group 3 students, Sławosz, mentor K4RGK, and telebridge station K6DUE!  
Watch for Livestream at <https://www.youtube.com/watch?v=i1I8YF1mGJc>

**\*UPCOMING\***

Axiom 4 group 6 telebridge via K6DUE  
North Eastern Space Applications Centre (NESAC), Dept. of Space, Govt. of India, Shillong, Meghalaya, India  
The ISS callsign is presently scheduled to be NA1SS  
The scheduled crewmember is Shubhanshu Shukla, VU2TNI  
The ARISS mentor is AA6TB  
Contact is go for: Tue 2025-07-08 08:38:31 UTC 77 degrees elevation

Axiom 4 group 2 telebridge via K6DUE  
MOBILIS Közhasznú Nonprofit Kft., Győr, Hungary  
The ISS callsign is presently scheduled to be NA1SS  
The scheduled crewmember is Tibor Kapu, HA5TRO  
The ARISS mentor is ON6TI  
Contact is go for: Wed 2025-07-09 07:49:40 UTC 43 degrees elevation

The crossband repeater continues to be *\*active\** [except for Progress Ops July 5 & 6](145.990 MHz up {PL 67} & 437.800 MHz down). If any crewmember is so inclined, all they have to do is pick up the microphone, raise the volume up, and talk on the crossband repeater. So give a listen, you just never know.

The packet system is also *\*active\** [except for Progress Ops July 5 & 6](145.825 MHz up & down).

As always, if there is an EVA, a docking, or an undocking; the ARISS radios are turned off as part of the safety protocol. *\*Powering off for Progress Ops on 7/5 OFF 15:50 UTC; ON 7/6 10:05 UTC. \**

Note, all times are approximate. It is recommended that you do your own orbital prediction or start listening about 10 minutes before the listed time.

The latest information on the operation mode can be found at  
<https://www.ariss.org/current-status-of-iss-stations.html>

The latest list of frequencies in use can be found at  
<https://www.ariss.org/contact-the-iss.html>

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

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AMSAT Ambassador Activities

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

August 21-24, 2025

\*Northeast HamXposition (HamX) & New England ARRL Convention\*  
Best Western Royal Plaza & Trade Center  
181 Boston Post Road W  
Marlborough, MA 01752  
<http://www.HamX.org>  
W1EME, WD4ASW, WB1FJ

September 6, 2025

\*Greater Louisville Hamfest\*  
Paroquet Springs Conference Centre  
395 Paroquet Springs Drive  
Shepherdsville, KY 40165  
W4FCL

October 16, 17, 18, 19, 2025

\*AMSAT Board of Directors Meeting and 43rd Annual AMSAT Space Symposium & Annual General Meeting\*  
Holiday Inn & Suites Phoenix Airport North  
1515 North 44th Street  
Phoenix, Arizona 85008  
Details at <https://www.amsat.org/2025-symposium/>

\*W4FCL is with WA4VOC at BARS Field Day (KC3WNX photo)\*

Interested in becoming an AMSAT Ambassador? AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events. For more information go to:  
<https://www.amsat.org/ambassador/>

[ANS thanks Bo Lowrey, W4FCL, Director – AMSAT Ambassador Program, for the above information]

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Satellite Shorts From All Over

+ ARRL's \*Logbook of the World\* (LoTW) was returned to service at 1400z on Wednesday, July 2, with upgraded servers. LoTW is a web-accessed database and repository that enables radio amateurs to submit electronic logs for amateur radio contacts (QSOs) and for confirmation (QSLs). Users can view submitted QSOs and resulting QSLs online. Radio amateurs can use LoTW to track their progress toward achievements and awards, such as Worked All States, DXCC, VUCC. It is also used to verify AMSAT awards such as Gridmaster. It is used by the vast majority of satellite operators. ARRL is

soliciting donations through the ARRL website to support the maintenance and expansion of LoTW. (ANS thanks ARRL for the above information.)

+ *\*AMSAT South Africa\** (AMSAT SA) has announced that the 2025 Space Symposium will be held on Saturday 2 August 2025 from 08:00 UTC – 14:00 UTC and has issued a call for papers. The theme of the symposium is “Embracing 68 years of space science and innovation in Amateur Radio.” Papers are invited covering all aspects of space science and communication impacting and enhancing the Amateur Radio experience, from the technical to operational aspects. Presentations are typically 30 minutes with a 10-minute Q&A. Send proposals in MS Word to admin [at] amsatsa.org.za by 7 July 2025. To enable as widest as possible audience to participate, this symposium will be held online on the Webex platform. Members of all AMSAT organisations and national societies may attend free upon registration, which open on 9 July 2025. Email admin [at] amsatsa.org.za for details. (ANS thanks AMSAT SA for the above information.)

+ *\*SpaceX\** launched its 500th Falcon 9 rocket to date with an overnight Starlink flight on Wednesday, July 2. The first stage booster used on the mission also flew for a record-setting 29th time. The mission, dubbed Starlink 10-25, lifted off from Space Launch Complex 40 at Cape Canaveral Space Force Station at 0628 UTC. A little more than eight minutes after liftoff, the booster landed on the droneship, ‘A Shortfall of Gravitas,’ completing the 472nd booster landing to date. (ANS thanks Spaceflight Now for the above information.)

+ *\*MethaneSAT\**, the Environmental Defense Fund (EDF) methane-tracking satellite backed by the Bezos Earth Fund, is lost in space. Its ground team lost contact with the spacecraft on June 20 but tried to reestablish a connection until it learned in the morning of July 1 that MethaneSAT had lost power altogether. The team believes that the satellite is likely not recoverable. MethaneSAT collected data on methane emissions that have previously been untrackable in an effort to combat climate change. Methane is the second largest contributor to global warming after carbon dioxide, with agriculture, fossil fuels and waste decomposition being the largest sources. (ANS thanks Engadget for the above information.)

+ EUMETSAT’s *\*Meteosat-12\** satellite, formerly Meteosat Third Generation (MTG) Imager 1, has now taken over from Meteosat-10 to deliver Europe’s prime weather data service from GEO. Meteosat-12 is the first imaging satellite in the MTG program and now moves into its key position above the equator at 0° longitude, directly over the Gulf of Guinea. Meteosat-12 is now the main source of near-real-time geostationary satellite data for Europe, Africa and the surrounding oceans. (ANS thanks satnews for the above information.)

+ A newly discovered *\*interstellar object\** is only the third such interloper to be observed in our solar system. The object – provisionally known as A11pl3Z – is not expected to pose an impact risk to Earth, but gained attention on Tuesday, July 1, when it was spotted by telescopes for NASA’s early warning system for asteroid impacts. Speeding through our solar system at about 245,000 kilometers per hour relative to the sun, it is currently located just inside the orbit of Jupiter, 528 million kilometers from Earth. It’s uncertain at this time if the object – which will get a new name when it is approved and published by the Minor Planet Center – is a comet or asteroid, but the observations so far have helped track the object’s journey, indicating it likely came from outside of the solar system from a thin galactic disk. (ANS thanks *\*The Washington Post\** for the above information.)

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Join AMSAT today at <https://launch.amsat.org/>

In addition to regular membership, AMSAT offers membership to:

- \* Societies (a recognized group, clubs or organization).
- \* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
- \* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
- \* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Mark Johns, KØJM  
mjohns [at] amsat.org

ANS is a service of AMSAT, the Radio Amateur Satellite Corporation, 712 H Street NE, Suite 1653, Washington, DC 2000